

an aqueous solution of an alkali metal base to maintain a pH of 7 to 9 in the combined solution as the solutions are combined, thereby producing solids in said combined solution [(d)] ~~(c)~~ separating said solids from said combined solution [(e)] ~~(d)~~ washing said solids, [(f)] ~~(e)~~ drying said solids, [(g)] ~~(f)~~ grinding said solids to a size range of 0.85mm to 4.25mm, [and (h)] ~~(g)~~ calcining said solids to form a catalyst, and (h) activating said catalyst, wherein the gold in said catalyst is present in an amount from 0.25% to 10% by weight of the iron in said catalyst.

Please cancel claims 14 and 15.

Please add new claims 16 and 17:

16. (New) Method of oxidizing CO in a mixture of gases including oxygen and at least 65% hydrogen comprising passing said mixture of gases through a catalyst bed comprising a catalyst made by (a) preparing an aqueous iron/gold solution comprising an iron source and a gold source (b) gradually combining said iron/gold solution with an aqueous solution of an alkali metal base to maintain a pH of 7 to 9 in the combined solution as the solutions are combined, thereby producing solids in said combined solution (c) separating said solids from said combined solution (d) washing said solids, (e) drying said solids, (f) grinding said solids to a size range of 0.85mm to 4.25mm, (g) calcining said solids, and (h) activating said solids, whereby said CO is oxidized while said hydrogen passing through said catalyst bed is substantially unoxidized.

17. (New) Method of oxidizing CO in a mixture of gases including oxygen and at least 65% hydrogen and wherein said CO is present in an amount from 200ppm to 20,000ppm, said gas also containing methane, comprising, for a period of at least 24 hours, passing said mixture of gases through a catalyst bed comprising a particulate catalyst made by (a) preparing an aqueous iron/gold solution comprising an iron source and a gold source (b) gradually combining said iron/gold solution with an aqueous solution of an alkali metal base to maintain a pH of 7 to 9 in the combined solution as the solutions are combined, thereby producing solids in said combined solution (c) separating said solids from said combined solution (d) washing said solids, (e) drying said solids, (f) grinding said solids to a size range of 0.85mm to 4.25mm, (g) calcining said solids to form a catalyst, and (h) activating said catalyst, wherein the gold in said catalyst is present in an amount from 0.25% to 10% by weight of the iron in said catalyst, and whereby, after said 24 hours, said hydrogen passing through said catalyst bed is substantially unoxidized while said CO passing through said bed is substantially oxidized.